APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/653,217	09/03/2003	Masanori Satake	116969	2607

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EXAMINER
LOVING, JARIC E

ART UNIT	PAPER NUMBER
2137	

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
3 MONTHS	01/17/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)
Office Action Summary	10/653,217	SATAKE ET AL.
	Examiner	Art Unit	
	Jaric Loving	2137	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on _03 September 2003_.
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) _1-19_ is/are pending in the application.
  4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) _1-19_ is/are rejected.
7) ☐ Claim(s) _____ is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.
10) ☒ The drawing(s) filed on _03 September 2003_ is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  a) ☒ All b) ☐ Some * c) ☐ None of:
    1. ☒ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. _____.
    3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
  * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _9/3/03,10/11/05_.
4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application
6) ☐ Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 103

1.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

2.   Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over

Mazzagatte et al., US 6,862,583 and further in view of Endoh, US 2002/0042880.

        In claim 1, Mazzagatte discloses a job processing device for executing jobs

based on job data, comprising:

        a first storage device (col. 5, line 52 – col. 6, line 29 – printer memory);

        a second storage device capable of having stored data erased at a faster speed

than the first storage device (col. 5, line 52 – col. 6, line 29 – RAM);

        a storage controller for distributing job data provided to execute a job between

the first storage device and the second storage device (col. 5, line 66 – col. 6, line 9).

        Mazzagatte fails to disclose a deletion controller for deleting job data stored

allocated to the second storage device by the storage controller when a prescribed

deletion condition is satisfied. Endoh discloses a deletion controller for deleting job data

stored allocated to the second storage device by the storage controller when a

prescribed deletion condition is satisfied (paragraphs [0137]-[0138], [0162], [0164]-

[0165]).

It would have been obvious to one of ordinary skill in the art at the time of the

invention to combine Mazzagatte's secure printing method with Endoh's job

management method utilizing a deletion controller to regulate jobs. It is for this reason

that one of ordinary skill in the art would have been motivated to provide Mazzagatte's

secure printing method with a deletion controller because it helps regulate the number

of jobs and prevent the deterioration of performance (Endoh, paragraphs [0006]-[0007]).

In claim 2, Mazzagatte, as modified, discloses the job processing device of claim

1, further comprising:

a job data reconstructor for reading out and reconstructing data stored distributed

between the first and second storage devices by the storage controller (Mazzagatte, col.

5, line 66 – col. 6, line 9); and

a job processing unit for executing jobs based on job data reconstructed by the

job data reconstructor, wherein completion of job execution by the job processing unit is

taken as the prescribed deletion condition in the deletion controller (Mazzagatte, col. 5

lines 38-65; Endoh, paragraph [0138]).

In claim 3, Mazzagatte, as modified, discloses the job processing device of claim

1, wherein the second storage device is volatile memory (Mazzagatte, col. 5, line 52 –

col. 6, line 29).

In claim 4, Mazzagatte, as modified, discloses the job processing device of claim

1, wherein the second storage device is an area that is part of a main storage device

the job processing device is equipped with (Mazzagatte, col. 5, line 52 – col. 6, line 29).

In claim 5, Mazzagatte, as modified, discloses the job processing device of claim 1, wherein the storage controller encrypts the job data and distributes data resulting from this encryption between the first storage device and the second storage device (Mazzagatte, col. 5, lines 38-42; col. 6, lines 15-19; col. 9, lines 8-21).

In claim 6, Mazzagatte, as modified, discloses the job processing device of claim 1, wherein

the storage controller distributes job data between the first storage device and the second storage device in accordance with a prescribed rule (Mazzagatte, col. 5, lines 58-65); and

the job processing device is further equipped with a rule manager for changing the prescribed rule (Mazzagatte, col. 5, lines 58-65; Endoh, paragraph [0165]).

In claim 7, Mazzagatte, as modified, discloses the job processing device of claim 6, wherein the rule manager changes the prescribed rule according to the state of the job processing device (Mazzagatte, col. 5, lines 58-65; Endoh, paragraph [0165]).

In claim 8, Mazzagatte, as modified, discloses the job processing device of claim 6, wherein the rule manager changes the prescribed rule according to an attribute of the job (Mazzagatte, col. 5, lines 58-65; Endoh, paragraph [0165]).

In claim 9, Mazzagatte, as modified, discloses the job processing device of claim 1, further comprising a remaining data deletion controller for deleting job data distributed to the first storage device after deleting job data distributed to the second storage device (Mazzagatte, col. 5, line 52 – col. 6, line 29; Endoh, paragraphs [0137]-[0138], [0162], [0164]-[0165]).

In claim 10, Mazzagatte, as modified, discloses the job processing device of claim 1, wherein the prescribed deletion condition for the deletion controller is receipt of a job data deletion instruction from a user (Endoh, paragraphs [0137]-[0138], [0162], [0164]-[0165]).

In claim 11, Mazzagatte, as modified, discloses the job processing device of claim 1, wherein the prescribed deletion condition for the deletion controller is receipt of a halt job execution instruction from a user (Endoh, paragraph [0165]).

In claim 12, Mazzagatte, as modified, discloses the job processing device of claim 1, further comprising a job controller for controlling execution of jobs, permitting execution of the next job at the time of completion of data deletion processing by the deletion controller (Mazzagatte, col. 5 lines 38-65; Endoh, paragraphs [0137]-[0138], [0162], [0164]-[0165], [0172]-[0173]).

In claim 13, Mazzagatte, as modified, discloses the job processing device of claim 1, wherein the storage controller decides the size of the job data distributed to the second storage device based on an amount of free space in the second storage device (Endoh, paragraphs [0172]-[0173]).

In claim 14, Mazzagatte discloses a job processing device for executing jobs based on job data, comprising:

a storage controller for storing job data supplied for job execution in a storage device (col. 5, line 66 – col. 6, line 9).

Mazzagatte fails to disclose a deletion controller for deleting part of the job data stored in the storage device by the storage controller when a prescribed deletion

condition is satisfied. Endoh discloses a deletion controller for deleting part of the job

data stored in the storage device by the storage controller when a prescribed deletion

condition is satisfied (paragraphs [0137]-[0138], [0162], [0164]-[0165]).

It would have been obvious to one of ordinary skill in the art at the time of the

invention to combine Mazzagatte's secure printing method with Endoh's job

management method utilizing a deletion controller to regulate jobs. It is for this reason

that one of ordinary skill in the art would have been motivated to provide Mazzagatte's

secure printing method with a deletion controller because it helps regulate the number

of jobs and prevent the deterioration of performance (Endoh, paragraphs [0006]-[0007]).

In claim 15, Mazzagatte, as modified, discloses the job processing device of

claim 14, further comprising a job processing unit for reading out job data from the

storage device and executing the job using the read-out job data, wherein completion of

job execution by the job processing unit is taken as a prescribed deletion condition in

the deletion controller (Mazzagatte, col. 5 lines 38-65; col. 5, line 66 – col. 6, line 9;

Endoh, paragraph [0138])

In claim 16, Mazzagatte, as modified, discloses the job processing device of

claim 14, wherein the prescribed deletion condition for the deletion controller is receipt

of a job data deletion instruction from a user (Endoh, paragraphs [0137]-[0138], [0162],

[0164]-[0165]).

In claim 17, Mazzagatte, as modified, discloses the job processing device of

claim 14, wherein the prescribed deletion condition for the deletion controller is receipt

of a halt job execution instruction from a user (Endoh, paragraph [0165]).

In claim 18, Mazzagatte, as modified, discloses the job processing device of claim 14, further comprising a job controller for controlling execution of jobs, permitting execution of the next job at the time of completion of data deletion processing by the deletion controller (Mazzagatte, col. 5 lines 38-65; Endoh, paragraphs [0137]-[0138], [0162], [0164]-[0165], [0172]-[0173]).

In claim 19, Mazzagatte discloses a data management method for a job processing device, comprising the steps of:

distributing job data supplied for executing a job between a first storage device and a second storage device capable of deleting data at a higher speed than the first storage device (col. 5, line 52 – col. 6, line 29).

Mazzagatte fails to disclose deleting a portion of data of the stored job data that is stored in the storage device when a prescribed deletion condition is satisfied. Endoh discloses deleting a portion of data of the stored job data that is stored in the storage device when a prescribed deletion condition is satisfied (paragraphs [0137]-[0138], [0162], [0164]-[0165]).

It would have been obvious to one of ordinary skill in the art at the time of the invention to combine Mazzagatte's secure printing method with Endoh's job management method allowing a portion of data to be deleted to regulate jobs. It is for this reason that one of ordinary skill in the art would have been motivated to provide Mazzagatte's secure printing method with the ability to delete a portion of the stored job data because it helps regulate the number of jobs and prevent the deterioration of performance (Endoh, paragraphs [0006]-[0007]).

Conclusion

3.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure: Olsen et al., US 6,952,780; Johnson et al., US 6,671,564;

Kashihara, US 6,571,147; Kurishita et al., US 7,100,198; Kurishita et al., US

2003/0041269; Ogilvie, US 2001/0056546; Partelow et al., US 2004/0008842; Goh et

al., US 2003/0099353; Dathathraya, US 2003/0044009.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jaric Loving whose telephone number is (571) 272-

1686. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Emmanuel Moise can be reached on (571) 272-3865. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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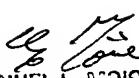
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